



*"... The ultimate test of a moral society is the kind of world that it leaves to its children..."*

*Dietrich Bonhoeffer*

*green*

DMV

*[department of motor vehicles]*

*green* DMV

California **DMV** *in partnership with*  
*Department of General Services*

LEED

*Leadership in Energy and Environmental Design*

*site + landscape*

*water efficiency*

*energy*

*indoor environmental quality*

*materials*

*design + innovation*



## site + landscape:

### Storm Water Drainage

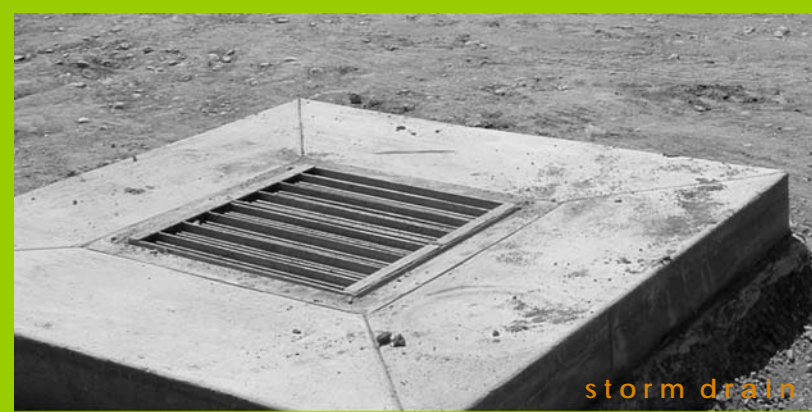
- Storm drains with filters
- Preventing further pollution of the natural waterways

### Site Selection

- **NOT** prime agricultural land
- **NOT** within 5' of 100 yr. flood plain
- **NOT** a habitat for threatened / endangered species
- **NOT** within 100' of waterways / wetlands
- **NOT** ever utilized as public parkland

### Light Pollution

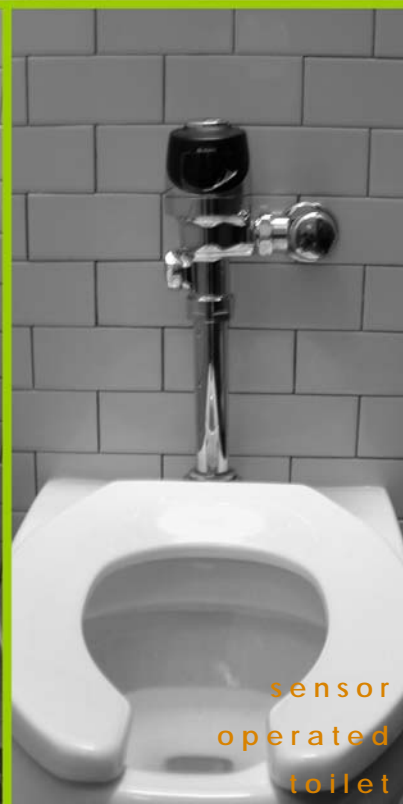
- Exterior lights that do not contribute to excessive light emission



low flow faucet



waterless  
urinal



sensor  
operated  
toilet

## water efficiency:

68% reduction in potable water usage by Site Irrigation

41% reduction in potable water usage by DMV Building

### Irrigation

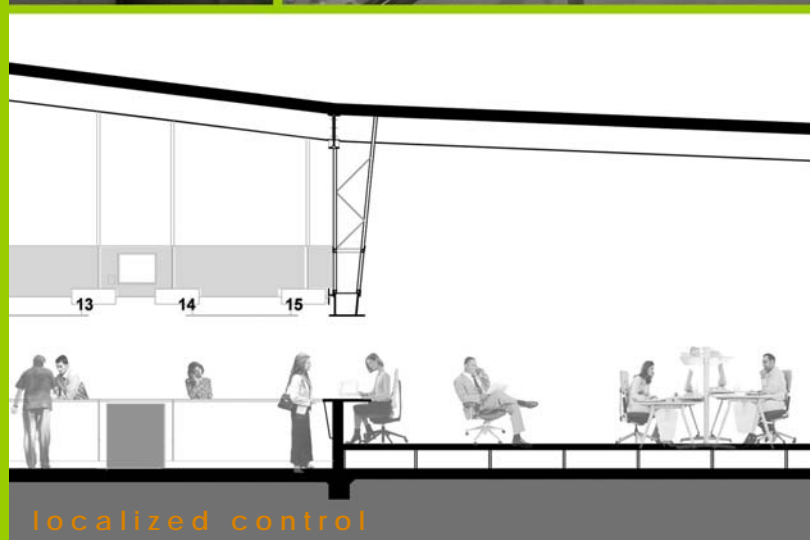
- Native plants with **Medium** to **Low** water usage
- High efficiency irrigation system

### Low Flow Faucet + Toilet

- Respond to the user through motion sensors
- Mitigate excessive water usage

### Waterless Urinals

- Unnecessary usage of water



## energy:

savings of **34%** greater than California Energy Code standard

## Ozone Depletion

- "Clean" HVAC equipment / Fire Suppression systems
- DO NOT contain nor emit ozone depleting elements

## Raised Floor

- Efficient air flow through displacement ventilation
- Allows for individual control of systems

## Capturing Natural Energy

- *Green-e Renewable Certificates* - 2 year contract
- Wind Energy offsets **100%** of the DMV Building's energy

## Lighting Efficiency

- Fluorescent and High Pressure Sodium
- Motion Sensor, Photocell Sensor, On/Off Switch

## Localized Control

- Floor diffusers for individual air flow and temperature control
- Task and Zonal lighting control

*green* DMV



# indoor environmental quality:

## CO<sub>2</sub> Monitoring

- Carbon Dioxide monitors maintain healthy environment

## Ventilation Effectiveness

- Maximize quality of indoor air
- Motorized dampers process natural air intake
- Low VOC [*volatile organic compounds*] materials

## Walk Off Mats

- Trap dirt particles before entering building
- Mitigate migration of contaminants into air **you** breathe

## Daylight + Exterior Views

- Minimal windows along west and south sides of building
- Extensive northern windows
- Clerestory / Skylights
- Exterior views from **90%** of occupied rooms



exterior views



walk off  
mats



vents



CO<sub>2</sub> monitoring

# materials:

## Construction Waste Management

- Divert a minimum of **50%** of construction waste from landfills
- Construction dumpsters labeled – *Wood, Steel, Aluminum*

## Recycled Building Materials

- At least **10%** of the Building's materials contain recycled content
  - Steel Framing
  - Concrete
  - Glazing
  - Finishes
  - Furniture

## Recycling

- State requirement - **50%** diversion of facility waste
- Individual blue recyclable receptacles
- Recycling Enclosure: *Paper, Cardboard, Aluminum, Glass*

## Local Manufacturing

- At least **20%** of the building materials were manufactured locally
- Minimize transportation energy and greenhouse gas emissions





## design + innovation:

Taking a few extra steps...

### Education

- Building Signage
- Presentations to DMV, DGS, and Design Team Staff
- Consciousness and Responsibility

### Green Power

- Wind Energy offsets **100%** of the DMV Building's energy

### Custodial Services

- Green Housekeeping Plan
- Green Interior Pest Management Plan

### LEED Accredited Professional

- At least one Design Team member proficient with LEED



## DMV - San Ysidro Field Office

6111 Business Center Court  
San Diego, CA 92154

[www.dmv.ca.gov](http://www.dmv.ca.gov)

## U.S. Green Building Council - LEED

[www.usgbc.org](http://www.usgbc.org)

team players

State of California, DGS  
RES D, Project Management Branch

[www.dgs.ca.gov](http://www.dgs.ca.gov)

Roesling Nakamura Terada Architects

[www.rntarchitects.com](http://www.rntarchitects.com)

Flores Lund Consultants

SDSE

Bender Dean Engineers

BSE Engineering

Spurlock Poirier Landscape Architects

Simon & Associates

Cox Construction Company

[www.coxconstructionco.com](http://www.coxconstructionco.com)



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